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PATENT  
Attorney Docket No.: 02558B-063700US  
Client Ref. No.: BRP00107

On 10-29-02  
TOWNSEND and TOWNSEND and CREW LLP  
By: [Signature]

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

STEVEN R. BINDER et al.

Application No.: 09/691,405

Filed: October 17, 2000

For: PATTERN RECOGNITION  
METHOD FOR DIAGNOSIS OF  
SYSTEMIC AUTOIMMUNE  
DISEASES

Examiner: Allen, Marianne P.

Art Unit: 1631

#3/A  
Plunkett  
11/7/02

**AMENDMENT NO. 1**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Office Action mailed August 6, 2002, please amend the above-identified application as follows:

**IN THE SPECIFICATION:**

Substitute the following for the paragraph at page 6, lines 23-28. This paragraph is also shown in Appendix A hereto with markings showing the change made by this amendment.

Principal component analysis is a multivariate technique for reducing matrices of data to their lowest dimensionality by use of orthogonal factor space. According to this technique, the training set is processed to identify the number of principal components. This information is then used to model the patient test data